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RAW SEQUENCE LISTING DATE: 10/04/2001  
PATENT APPLICATION: US/09/866,307 TIME: 17:40:34

Input Set : A:\sequence.txt  
Output Set: N:\CRF3\10042001\I866307.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:  
4 (i) APPLICANT: LAWRENCE P. WACKETT  
5 (ii) TITLE OF INVENTION: DNA MOLECULES AND PROTEIN DISPLAYING  
6 IMPROVED TRIAZINE COMPOUND DEGRADING ABILITY  
7 (iii) NUMBER OF SEQUENCES: 26  
8 (iv) CORRESPONDENCE ADDRESS:  
9 (A) ADDRESSEE: MUETING, RAASCH & GEBHARDT, P.A.  
10 (B) STREET: 119 North Fourth Street  
11 (C) CITY: Minneapolis  
12 (D) STATE: Minnesota  
13 (E) COUNTRY: USA  
14 (F) ZIP: 55401  
15 (v) COMPUTER READABLE FORM:  
16 (A) MEDIUM TYPE: Floppy disk  
17 (B) COMPUTER: IBM PC compatible  
18 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
19 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30  
20 (vi) CURRENT APPLICATION DATA:  
C--> 21 (A) APPLICATION NUMBER: US/09/866,307  
C--> 22 (B) FILING DATE: 20-Sep-2001  
23 (C) CLASSIFICATION:  
24 (vii) PRIOR APPLICATION DATA:  
25 (A) APPLICATION NUMBER: 60/035,404  
26 (B) FILING DATE: 17-JAN-1997  
27 (A) APPLICATION NUMBER: PCT/US98/00944  
28 (B) FILING DATE: 16-JAN-1998  
29 (A) APPLICATION NUMBER: 09/155,036  
30 (B) FILING DATE: 17-SEPT-1998  
31 (viii) ATTORNEY/AGENT INFORMATION:  
32 (A) NAME: PROVENCE, DAVID L.  
33 (B) REGISTRATION NUMBER: 43,022  
34 (C) REFERENCE/DOCKET NUMBER: 110.00440102  
35 (ix) TELECOMMUNICATION INFORMATION:  
36 (A) TELEPHONE: 612-305-1005  
37 (B) TELEFAX: 612-305-1228  
39 (2) INFORMATION FOR SEQ ID NO: 1:  
41 (i) SEQUENCE CHARACTERISTICS:  
42 (A) LENGTH: 1858 base pairs  
43 (B) TYPE: nucleic acid  
44 (C) STRANDEDNESS: single  
45 (D) TOPOLOGY: linear  
47 (ii) MOLECULE TYPE: DNA (genomic)  
50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
52 CTCGGGTAAC TTCTTGAGCG CGGCCACAGC AGCCTTGATC ATGAAGGCGA GCATGGTGAC 60  
54 CTTGACGCCG CTCTTTTCGT TCTCTTTGTT GAACTGCACG CGAAAGGCTT CCAGGTCGGT 120  
56 GATGTCCGCG TCGTCGTGGT TGGTGACGTG CGGGATGACC ACCCAGTTGC GGTGCAGGTT 180

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58 TTTTCGATGGC ATAATATCTG CGTTGCGACG TGTAACACAC TATTGGAGAC ATATCATGCA      240
60 AACGCTCAGC ATCCAGCAGC GTACCCTCGT CACGATGGAT CAGTACCGCA GAGTCCTTGG      300
62 GGATAGCTGG GTTACAGTGC AGGATGGACG GATCGTCGCG CTCGGAGTGC ACGCCGAGTC      360
64 GGTGCCTCCG CCAGCGGATC GGGTGATCGA TGCACGCGGC AAGGTCGTGT TACCCGGTTT      420
66 CATCAATGCC CACACCCATG TGAACCAGAT CCTCCTGCGC GGAGGGCCCT CGCACGGACG      480
68 TCAATTCAT GACTGGCTGT TCAACGTTGT GTATCCGGGA CAAAAGGCGA TGAGACCGGA      540
70 GGACGTAGCG GTGGCGGTGA GGTGTATTG TGCGGAAGCT GTGCGCAGCG GGATTACGAC      600
72 GATCAACGAA AACGCCGATT CGGCCATCTA CCCAGGCAAC ATCGAGGCCG CGATGGCGGT      660
74 CTATGGTGAG GTGGGTGTGA GGGTCGTCTA CGCCCGCATG TTCTTTGATC GGATGGACGG      720
76 GCGCATTCAA GGGTATGTGG ACGCCTTGAA GGCTCGCTCT CCCCAAGTCG AACTGTGCTC      780
78 GATCATGGAG GAAACGGCTG TGGCCAAAGA TCGGATCACA GCCCTGTCAG ATCAGTATCA      840
80 TGGCACGGCA GGAGGTCGTA TATCAGTTTG GCCCGCTCCT GCCACTACCA CGGCGGTGAC      900
82 AAGTTAAGGA ATGCGATGGG CACAAGCCTT GCCCCGTGAT CGGGCGGTAA TGTGGACGCT      960
84 TCACATGGCG GAGAGCGATC ATGATGAGCG GATTCATGGG ATGAGTCCCG CCGAGTACAT     1020
86 GGAGTGTTAC GGACTCTTGG ATGAGCGTCT GCAGGTCGCG CATTGCGTGT ACTTTGACCG     1080
88 GAAGGATGTT CGGCTGTGTC ACCGCCACAA TGTGAAGGTC GCGTCGCAGG TTGTGAGCAA     1140
90 TGCCTACCTC GGCTCAGGGG TGGCCCCCGT GCCAGAGATG GTGGAGCGCG GCATGGCCGT     1200
92 GGGCATTGGA ACAGATAACG GGAATAGTAA TGACTCCGCA AACATGATCG GAGACATGAA     1260
94 GTTTATGGCC CATATTCACC GCGCGGTGCA TCGGGATGCG GACGTGCTGA CCCAGAGAA     1320
96 GATTCTTGAA ATGGCGACGA TCGATGGGGC GCGTTCGTTG GGAATGGACC ACGAGATTGG     1380
98 TTCCATCGAA ACCGGCAAGC GCGCGGACCT TATCTGCTT GACCTGCGTC ACCTCAGACC     1440
100 ACTCTCACAT CATTGGCGG CCACGATCGT GTTTCAGGCT TACGGCAATG AGGTGGACAC     1500
102 TGCTCTGATT GACGGAAACG TTGTGATGGA GAACCGCCGC TTGAGCTTTC TTCCCCCTGA     1560
104 ACGTGAGTTG GCGTTCCTTG AGGAAGCGCA GAGCCGCGCC ACAGCTATTT TGACGCGGGC     1620
106 GAACATGGTG GCTAACCCAG CTTGGCGCAG CCTCTAGGAA ATGACGCCGT TGCTGCATCC     1680
108 GCCGCCCCCT GAGGAAATCG CTGCCATCTT GCGCGGCTC GGATTGGGGG GCGGACATGA     1740
110 CCTTGATGGA TACGAATTC CATGAATGC GGCACCTCCG TCCTTCGCTC GTGTGGAATC     1800
112 GTTGGTAGGT GAGGGTCGAC TCGGGCGGCC AGCTTCCCGA AGAGGTGAAA GGCCCGAG     1858

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## 114 (2) INFORMATION FOR SEQ ID NO: 2:

## 116 (i) SEQUENCE CHARACTERISTICS:

117 (A) LENGTH: 473 amino acids

118 (B) TYPE: amino acid

119 (C) STRANDEDNESS: single

120 (D) TOPOLOGY: linear

## 122 (ii) MOLECULE TYPE: protein

## 127 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

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129 Met Gln Thr Leu Ser Ile Gln His Gly Thr Leu Val Thr Met Asp Gln
130 1 5 10 15
132 Tyr Arg Arg Val Leu Gly Asp Ser Trp Val His Val Gln Asp Gly Arg
133 20 25 30
135 Ile Val Ala Leu Gly Val His Ala Glu Ser Val Pro Pro Ala Asp
136 35 40 45
138 Arg Val Ile Asp Ala Arg Gly Lys Val Val Leu Pro Gly Phe Ile Asn
139 50 55 60
141 Ala His Thr His Val Asn Gln Ile Leu Leu Arg Gly Gly Pro Ser His
142 65 70 75 80
144 Gly Arg Gln Phe Tyr Asp Trp Leu Phe Asn Val Val Tyr Pro Gly Gln
145 85 90 95
147 Lys Ala Met Arg Pro Glu Asp Val Ala Val Ala Val Arg Leu Tyr Cys

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```

148          100          105          110
150 Ala Glu Ala Val Arg Ser Gly Ile Thr Thr Ile Asn Glu Asn Ala Asp
151          115          120          125
153 Ser Ala Ile Tyr Pro Gly Asn Ile Glu Ala Ala Met Ala Val Tyr Gly
154          130          135          140
156 Glu Val Gly Val Arg Val Val Tyr Ala Arg Met Phe Phe Asp Arg Met
157          145          150          155          160
159 Asp Gly Arg Ile Gln Gly Tyr Val Asp Ala Leu Lys Ala Arg Ser Pro
160          165          170          175
162 Gln Val Glu Leu Cys Ser Ile Met Glu Glu Thr Ala Val Ala Lys Asp
163          180          185          190
165 Arg Ile Thr Ala Leu Ser Asp Gln Tyr His Gly Thr Ala Gly Gly Arg
166          195          200          205
168 Ile Ser Val Trp Pro Ala Pro Ala Thr Thr Thr Ala Val Thr Val Glu
169          210          215          220
171 Gly Met Arg Trp Ala Gln Ala Phe Ala Arg Asp Arg Ala Val Met Trp
172          225          230          235          240
174 Thr Leu His Met Ala Glu Ser Asp His Asp Glu Arg Ile His Gly Met
175          245          250          255
177 Ser Pro Ala Glu Tyr Met Glu Cys Tyr Gly Leu Leu Asp Glu Arg Leu
178          260          265          270
180 Gln Val Ala His Cys Val Tyr Phe Asp Arg Lys Asp Val Arg Leu Leu
181          275          280          285
183 His Arg His Asn Val Lys Val Ala Ser Gln Val Val Ser Asn Ala Tyr
184          290          295          300
186 Leu Gly Ser Gly Val Ala Pro Val Pro Glu Met Val Glu Arg Gly Met
187          305          310          315          320
189 Ala Val Gly Ile Gly Thr Asp Asn Gly Asn Ser Asn Asp Ser Ala Asn
190          325          330          335
192 Met Ile Gly Asp Met Lys Phe Met Ala His Ile His Arg Ala Val His
193          340          345          350
195 Arg Asp Ala Asp Val Leu Thr Pro Glu Lys Ile Leu Glu Met Ala Thr
196          355          360          365
198 Ile Asp Gly Ala Arg Ser Leu Gly Met Asp His Glu Ile Gly Ser Ile
199          370          375          380
201 Glu Thr Gly Lys Arg Ala Asp Leu Ile Leu Leu Asp Leu Arg His Leu
202          385          390          395          400
204 Arg Arg Leu Ser His His Leu Ala Ala Thr Ile Val Phe Gln Ala Tyr
205          405          410          415
207 Gly Asn Glu Val Asp Thr Val Leu Ile Asp Gly Asn Val Val Met Glu
208          420          425          430
210 Asn Arg Arg Leu Ser Phe Leu Pro Pro Glu Arg Glu Leu Ala Phe Leu
211          435          440          445
213 Glu Glu Ala Gln Ser Arg Ala Thr Ala Ile Leu Gln Arg Ala Asn Met
214          450          455          460
216 Val Ala Asn Pro Ala Trp Arg Ser Leu
217          465          470
219 (2) INFORMATION FOR SEQ ID NO: 3:
221 (i) SEQUENCE CHARACTERISTICS:

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DATE: 10/04/2001

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222 (A) LENGTH: 1808 base pairs  
 223 (B) TYPE: nucleic acid  
 224 (C) STRANDEDNESS: single  
 225 (D) TOPOLOGY: linear  
 227 (ii) MOLECULE TYPE: DNA (genomic)  
 232 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

234	GCGAGCATGG	TGACCTTGAC	GCCGCTCTTT	TCGTTCTCTT	TGTTGAACTG	CACGCGAAAG	60
236	GCTTCCAGGT	CGGTGATGTC	CGCGTCGTCG	TGGTTGGTGA	CGTGCGGGAT	GACCACCCAG	120
238	TTGCGGTGCA	GGTTTTTCGA	TGGCATAATA	TCTGCGTTGC	GACGTGTAAC	AACTATTGG	180
240	AGACATATCA	TGCAAACGCT	CAGCATCCAG	CACGGTACCC	TCGTCACGAT	GGATCAGTAC	240
242	CGCAGAGTCC	TTGGGGATAG	CTGGGTTTAC	GTGCAGGATG	GACGGATCGT	CGCGCTCGGA	300
244	GTGCACGCCG	AGTCGGTGCC	TCCGCCAGCG	GATCGGGTGA	TCGATGCACG	CGGCAAGGTC	360
246	GTGTTACCCG	GTTCATCAA	TGCCCACACC	CATGTGAACC	AGATCCTCCT	GCGCGGAGGG	420
248	CCCTCGCACG	GGCGTCAATT	CTATGACTGG	CTGTTCAACG	TTGTGTATCC	GGGACAAAAG	480
250	GCGATGAGAC	CGGAGGACGT	AGCGGTGGCG	GTGAGGTTGT	ATTGTGCGGA	AGCTGTGCGC	540
252	AGCGGGATTA	CGACGATCAA	CGAAAACGCC	GATTCGGCCA	TCTACCCAGG	CAACATCGAG	600
254	GCCGCGATGG	CGGTCTATGG	TGAGGTGGGT	GTGAGGGTCG	TCTACGCCCG	CATGTTCTTT	660
256	GATCGGATGG	ACGGGCGCAT	TCAAGGGTAT	GTGGACGCCT	TGAAGGCTCG	CTCTCCCCAA	720
258	GTGGAAGTGT	GCTCGATCAT	GGAGGGAACG	GATCGGGCCA	AAGATCGGAT	CACAGCCCTG	780
260	TCAGATCAGT	ATCATGGCAC	GGCAGGAGGT	CGTATATCAG	TTTGGCCCGC	TCCTGCCACT	840
262	ACCACGGCGG	TGACAGTTGA	AGGAATGCCA	TGGGCACAAG	CCTTCGCCCG	TGATCGGGCG	900
264	GTAATGTGGA	CGCTTCACAT	GGCGGAGAGC	GATCATGATG	AGCGGATTCA	TGGGATGAGT	960
266	CCCGCCGAGT	ACATGGAGTG	TTACGGACTC	TTGGATGAGC	GTCTGCAGGT	CGCGCATTCG	1020
268	GTGTACTTTG	ACCGGAAGGA	TGTTCCGGCTG	CTGCACCGCC	ACAATGTGAA	GGTCGCGTCG	1080
270	CAGGTTGTGA	GCAATGCCTA	CCTCGGCTCA	GGGGTGGCCC	CCGTGCCAGA	GATGGTGGAG	1140
272	CGCGGCATGT	CCGTGGGCAT	TGGAACAGAT	AACGGGAATA	GTAATGACTC	CGTAAACATG	1200
274	ATCGGAGACA	TGAAGTTTAT	GGCCCATATT	CACCGCGCGG	TGCATCGGGA	TGCGGACGTG	1260
276	CTGACCCAG	AGAAGATTCT	TGAAATGGCG	ACGATCGATG	GGGCGCGTTC	GTTGGGAATG	1320
278	GACCACGAGA	TTGGTTCCAT	CGAAACCGGC	AAGCGCGCGG	ACCTTATCCT	GCTTGACCTG	1380
280	CGTCACCCCT	AGACGACTCC	TCACCATCAT	TTGGCGGCCA	CGATCGTGTT	TCAGGCTTAC	1440
282	GGCAATGAGG	TGGACACTGT	CCTGATTGAC	GGAACCGTTG	TGATGGAGAA	CCGCCGCTTG	1500
284	AGCTTTCTTC	CCCCTGAACG	TGAGTTGGCG	TTCCTTGAGG	AAGCGCAGAG	CCGCGCCACA	1560
286	GCTATTTTGC	AGCGGGCGAA	CATGGTGGCT	AACCCAGCTT	GGCGCAGCCT	CTAGGAAATG	1620
288	ACGCCGTTGC	TGCATCCGCC	GCCCCCTGAG	GAAATCGCTG	CCATCTTGGC	GCGGCTCGGA	1680
290	TTGGGGGGCG	GACATGACCT	TGATGGATAC	AGAATTGCCA	TGAATGCGGC	ACTTCCGTCC	1740
292	TTCGCTCGTG	TGGAATCGTT	GCTAGGTGAG	GGTCGACTGC	GGGCGCCAGC	TTCCCGAAGA	1800
294	AGTGAAAG						1808

296 (2) INFORMATION FOR SEQ ID NO: 4:  
 298 (i) SEQUENCE CHARACTERISTICS:  
 299 (A) LENGTH: 1846 base pairs  
 300 (B) TYPE: nucleic acid  
 301 (C) STRANDEDNESS: single  
 302 (D) TOPOLOGY: linear  
 304 (ii) MOLECULE TYPE: DNA (genomic)  
 309 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

311	GAGCGCCGCC	ACAGCAGCCT	TGATCATGAA	GGCGAGCATG	GTGACCTTGA	CGCCGCTCTT	60
313	TTGCTTCTCT	TTGTTGAACT	GCACGCGAAA	GGCTTCCAGG	TCGGTGATGT	CCGCGTCGTC	120
315	GTGGTTGGTG	ACGTGCGGGA	TGACCACCCA	GTTGCGGTGC	AGGTTTTTCG	ATGGCGTAAT	180
317	ATCTGCGTTG	CGACGTGTAA	CACACTATTG	GAGACATATC	ATGCAAACGC	TCAGCATCCA	240

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```

319 GCACGGTACC CTCGTCACGA TGGATCAGTA CCGCAGAGTC CTTGGGGATA GCTGGGTTCA 300
321 CGTGCAGGAT GGACGGATCG TCGCGCTCGG AGTGCACGCC GAGTCGGTGC CTCCGCCAGC 360
323 GGATCGGGTG ATCGATGCAC GCGGCAAGGT CGTGTTACCC GGTTCATCA ATGCCACAC 420
325 CCATGTGAAC CAGATCCTCC TCGCGGAGG GCCCTCGCAC GGGCGTCAAT TCTATGACTG 480
327 GCTGTTCAAC GTTGTGTATC CGGGACAAAA GGCGATGAGA CCGGAGGACG TAGCGGTGGC 540
329 GGTGAGGTTG TATTGTGCGG AAGCTGTGCG CAGCGGGATT ACGACGATCA ACGAAAACGC 600
331 CGATTGCGCC ATCTACCCAG GCAACATCGA GGCCGCGATG GCGGTCTATG GTGAGGTGGG 660
333 TGTGAGGGTC GTCTACGCCC GCATGTTCTT TGATCGGATG GACGGGCGCA TTCAAGGGTA 720
335 TGTGACGCC TTGAAGGCTC GCTCTCCCA AGTCGAACTG TGCTCGATCA TGGAGGAAAC 780
337 GGCTGTGGCC AAAGATCGGA TCACAGCCCT GTCAGATCAG TATCATGGCA CGGCAGGAGG 840
339 TCGTATATCA GTTTGGCCCG CTCCTGCCAC TACCACGGCG GTGACAGTTG AAGGAATGCG 900
341 ATGGGCACAA GCCTTCGCCG GTGATCGGGC GGTAAATGTG ACGCTTCACA TGGCGGAGAG 960
343 CGATCATGAT GAGCGGATT ATGGGATGAG TCCCGCCGAT TACATGGAGT GTTACGGA 1020
345 CTTGGATGAG CGTCTGCAGG TCGCGCATTG CGTGTACTTT GACCGGAAGG ATGTTCCGGCT 1080
347 GCTGCACCGC CACAATGTGA AGGTCGCGTC GCAGGTTGTG AGCAATGCCT ACCTCGGCTC 1140
349 AGGGGTGGCC CCCGTGCCAG AGATGGTGA GCGCGCATG GCCGTGGGCA TTGGAACAGA 1200
351 TAACGGGAAT AGTAATGACT CCGTAAACAT GATCGGAGAC ATGAAGTTTA TGGCCCATAT 1260
353 TCACCGCGCG GTGCATCGGG ATGCGGACGT GCTGACCCCA GAGAAGATTG TTGAAATGGC 1320
355 GACGATCGAT GGGGCGCGTT CGTTGGGGAT GGACCACGAG ATTGGTTCCA TCGAAACCGG 1380
357 CAAGCGCGCG GACCTTATCC TGCTTGACCT GCGTCACCT CAGACGACTC CTCACCATCA 1440
359 TTTGGCGGCC ACGATCGTGT TTCAGGCTTA CGGCAATGAG GTGGACACTG TCCTGATTGA 1500
361 CGGAAACGTT GTGATGGAGA ACCGCGCTT GAGCTTCTT CCCCTGAAC GTGAGTTGGC 1560
363 GTTCCTTGA GAAGCGCAGA GCCGCGCCAC AGCTATTTT CAGCGGGCGA ACATGTTGGC 1620
365 TAACCCAGCT TGGCGCAGCC TCTAGGAAAT GACGCGGTTG CTGCATCCGC CGCCCCTGA 1680
367 GGAAATCGCT GCCATCTTGG CGCGGCTCGG ATTGGGGGGC GGACATGACC TTGATGGATA 1740
369 CAGAATTGCC ATGAATGCGG CACTTCCGTC CTTCCGTCGT GTGGAATCGT TGGTAGGTGA 1800
371 GGGTCGACTG CGGGCGCCAG CTTCCGAAG AAGTGAAAGG CCCGAG 1846

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373 (2) INFORMATION FOR SEQ ID NO: 5:

375 (i) SEQUENCE CHARACTERISTICS:

376 (A) LENGTH: 601 amino acids

377 (B) TYPE: amino acid

378 (C) STRANDEDNESS: single

379 (D) TOPOLOGY: linear

381 (ii) MOLECULE TYPE: protein

386 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

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388 Ala Ser Met Val Thr Leu Thr Pro Leu Phe Ser Phe Ser Leu Leu Asn
389 1 5 10 15
391 Cys Thr Arg Lys Ala Ser Arg Ser Val Met Ser Ala Ser Ser Trp Leu
392 20 25 30
394 Val Thr Cys Gly Met Thr Thr Gln Leu Arg Cys Arg Phe Phe Asp Gly
395 35 40 45
397 Ile Ile Ser Ala Leu Arg Arg Val Thr His Tyr Trp Arg His Ile Met
398 50 55 60
400 Gln Thr Leu Ser Ile Gln His Gly Thr Leu Val Thr Met Asp Gln Tyr
401 65 70 75 80
403 Arg Arg Val Leu Gly Asp Ser Trp Val His Val Gln Asp Gly Arg Ile
404 85 90 95
406 Val Ala Leu Gly Val His Ala Glu Ser Val Pro Pro Pro Ala Asp Arg
407 100 105 110

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VERIFICATION SUMMARY

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L:21 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:22 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]